



**Milkplan**<sup>®</sup>

# MP Powertank

Closed type  
milk cooling tanks

#milkplanners



**Milkplan**

[www.milkplan.com](http://www.milkplan.com)



Present  
in over 95 countries  
worldwide

# We have a plan.

# We have a plan to improve your milk quality

## MP Powertank

The stainless steel milk cooling tanks MP Powertank are horizontal tanks in two types (round and elliptical) with access manholes and two options for automatic cooling and washing control systems. They are manufactured according to the highest European and American quality standards.



Specs

### TECHNICAL SPECIFICATIONS

1. Agitation motor by the French company Sirem, 21-25 rpm.
2. Cooling units with Tecumseh, Maneurop and Copeland compressors.
3. Special thermal insulation with ecological and high-density, environmentally-friendly two-component polyurethane foam.
4. Made entirely of anti-magnetic stainless steel 18/10, DIN 1.4301 (AISI 304) with special finish processing.
5. Specially-designed laser-welded evaporator for more efficient milk cooling. The evaporator's design prevents freezing of even small amounts of milk.
6. With an integrated automatic washing control system, two options (MPP Standard or MPP Control).
7. Stainless steel external pressure equalizer.
8. Stainless steel adjustable feet.

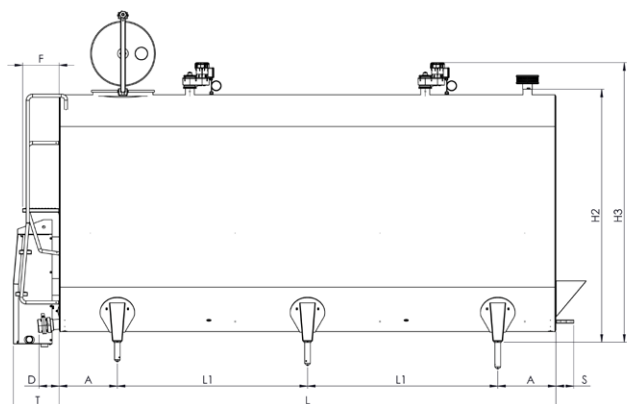
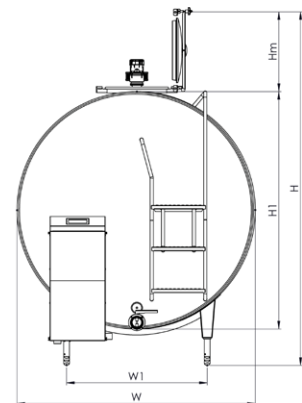
\*For different sizes contact our sales department at: [sales@milkplan.com](mailto:sales@milkplan.com)



# MPP Round

Capacities from 1,000lt - 14,000lt. For 2, 4 and 6 milkings.

Tank Type	W / H1	W1	H2	H3	Hm	H	L	L1	A	Legs	Agitators
MPP 1500	1350	800	1590	1830	620	2290	1550	950	300	4	1
MPP 2000	1350	800	1590	1830	620	2290	2020	1010	505	4	1
MPP 2500	1350	800	1590	1780	620	2290	2350	1450	450	4	1
MPP 3000	1350	800	1590	1780	620	2290	2900	1400	750	4	1
MPP 3500	1350	800	1590	1780	620	2290	3400	975	725	6	1
MPP 4000	1680	990	1870	2055	720	2520	2370	1400	485	4	1
MPP 5000	1680	990	1870	2055	720	2520	2900	1400	750	4	1
MPP 6000	1680	990	1870	2055	720	2520	3500	1400	350	6	1
MPP 8000	1990	1090	2130	2315	720	2990	3341	1200	470	6	2
MPP 10000	1990	1090	2130	2315	720	2990	4160	1600	480	6	2
MPP 12000	2230	1450	2410	2595	720	3200	3830	1340	575	6	2
MPP 14000	2230	1450	2410	2595	720	3200	4500	1650	600	6	2



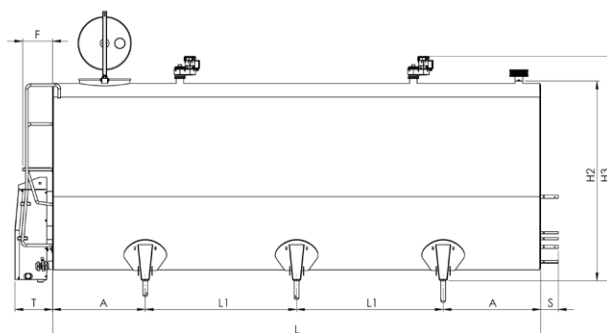
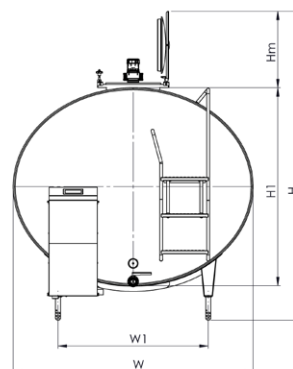
# MPP Oval (Elliptical)

Capacities from 10,000lt - 20,000lt. For 2, 4 and 6 milkings.  
 For faster cooling of larger amounts of milk.  
 An ideal solution for places where there is a height limitation.

Tank Type	W	W1	H1	H2	H3	Hm	H	L	L1	A	Legs	Agitators
MPPO 10000	2300	1440	1900	2040	2290	720	2965	3600	1400	400	6	2
MPPO 12000	2300	1440	1900	2040	2290	720	2965	4430	1550	665	6	2
MPPO 14000	2300	1440	1900	2040	2290	720	2965	4980	1550	980	6	2
MPPO 16000	2300	1440	1900	2040	2290	720	2965	5790	1550	700	8	2
MPPO 18000	2300	1440	1900	2040	2290	720	2965	6425	1550	960	8	3
MPPO 20000	2300	1440	1900	2040	2290	720	2965	7200	1550	500	10	3



Measurements



## Operating characteristics

- For 2, 4 and 6 milkings.
- Temperature sensor, easily accessible for replacement.
- Manhole that seals without plastic flange use.
- Rotating spraydish for washing the interior of the cooling tank.

## Plus

Optional equipment:

- Electronic measuring system with a stainless steel, high-precision meter of +/-0,5%.
- Automatic weighing system installed on the cooling tank feet (high-precision weighing system ( $\pm 0,1\%$ ) with an independent LCD display with 4, 6, 8 load cells).
- Self-cleaning valve.
- Disinfection cycle.
- Connection to a data recorder.
- Pre-installation of evaporators for future conversion of the cooling tank from 4 to 2 milkings.
- Cooling units for particularly warm climates (Tropical +43°C).
- Various options of stainless steel valve threads DN, SMS, IDF, TRICLAMP.



## Cooling and washing systems

### STANDARD

Standard version of automatic washing system (PLC)

The system controls the cooling and agitation functions as well as the full washing in five cycles; cold pre-wash, hot pre-wash, main hot wash, hot rinse, cold rinse with manual cooling/washing option easy-to-use in operation.

It includes:

- Independent peristaltic pumps for detergent and acid.
- Drain valve of Ø50mm.
- Electronic thermometer - thermostat with an integrated Dixell agitation program.
- Independent solenoid valves (¾") for hot and cold water supply.
- Automatic operation with the Schneider electronic controller (PLC) with fully adjustable parameters and an option for software update.
- Sirem's powerful washing pump for constant flow and proper spray pressure.
- Special rotating blades for water spraying during washing.

### CONTROL

Full version of the automatic washing system (PLC)

All parameters for the proper cooling, agitation and washing, as well as all necessary information for the operation of the cooling tank are configured through a programmable logic controller (PLC). The easy-to-use control panel is installed in the front part of each cooling tank within a stainless steel (AISI 304) construction.

In addition, the system provides:

- A full system of 14 alarms.
- An electronic thermometer (backup controller) and a cooling and agitation thermostat by Dixell of an IP 65 sealing rating.
- A backlit and waterproof (IP65) digital LCD display.
- An audible alarm in case of a problem.
- Optional addition of a stainless steel, three-phase electric resistance heater.

# Milkplan at a glance



2 factories in Greece

30.000 sq.m.  
of privately owned facilities



Research and Development

Continuing investments in resources,  
new products and technologies



More than 140 employees

average age of 37 years



No 1 in Greece

More than 1.500 milking systems.  
35.000 milk cooling tanks in farms  
and cheese-making units



Exports in more than  
95 countries

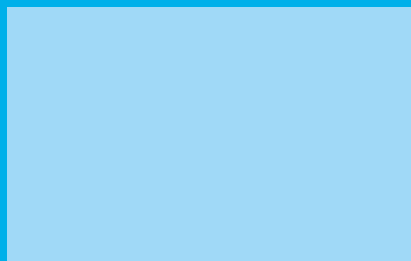
18 new added during the last 3 years



80% international sales

Continuing sales increase

Official representative



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